



#### **MAJOR SOURCE OPERATING PERMIT**

Permitee: Cheney Lime & Cement

Facility Name: Calera Plant

Facility No.: 411-0019

Location: Calera, Alabama

In accordance with and subject to the provisions of the Alabama Air Pollution Control Act of 1971, as amended, <u>Ala. Code</u> §§22-28-1 to 22-28-23 (2006 Rplc. Vol. and 2007 Cum. Supp.) (the "AAPCA") and the Alabama Environmental Management Act, as amended, <u>Ala. Code</u> §§22-22A-1 to 22-22A-15 (2006 Rplc. Vol. and 2007 Cum. Supp.), and rules and regulations adopted thereunder, and subject further to the conditions set forth in this permit, the Permittee is hereby authorized to construct, install and use the equipment, device or other article described above.

Pursuant to the **Clean Air Act of 1990**, all conditions of this permit are federally enforceable by EPA, the Alabama Department of Environmental Management, and citizens in general. Those provisions which are not required under the **Clean Air Act of 1990** are considered to be state permit provisions and are not federally enforceable by EPA and citizens in general. Those provisions are contained in separate sections of this permit.

Issuance Date: Draft

Expiration Date: Draft

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	General Fermit Provisos		
Fed	erally E	Inforceable Provisos	Regulations
1.	Tran	<u>sfer</u>	
	or ot piece	permit is not transferable, whether by operation of law herwise, either from one location to another, from one of equipment to another, or from one person to her, except as provided in Rule 335-3-1613(1)(a)5.	ADEM Admin Code r. 335-3-1602(6)
2.	Rene	ewals	
	six (6	pplication for permit renewal shall be submitted at least 6) months, but not more than eighteen (18) months, be the date of expiration of this permit.	ADEM Admin Code r. 335-3-1612(2)
	to op and o	source for which this permit is issued shall lose its right erate upon the expiration of this permit unless a timely complete renewal application has been submitted in the time constraints listed in the previous paragraph.	
3.	Seve	rability Clause	
	and in clause invaluation jurise invaluation confinate that	provisions of this permit are declared to be severable of any section, paragraph, subparagraph, subdivision, se, or phrase of this permit shall be adjudged to be id or unconstitutional by any court of competent diction, the judgment shall not affect, impair, or idate the remainder of this permit, but shall be ned in its operation to the section, paragraph, aragraph, subdivision, clause, or phrase of this permit shall be directly involved in the controversy in which judgment shall have been rendered.	ADEM Admin Code r. 335-3-1605(e)
4.	Com	<u>pliance</u>	
	(a)	The permittee shall comply with all conditions of ADEM Admin. Code 335-3. Noncompliance with this permit will constitute a violation of the Clean Air Act of 1990 and ADEM Admin. Code 335-3 and may result in an enforcement action; including but not limited to, permit termination, revocation and reissuance, or modification; or denial of a permit renewal application by the permittee.	ADEM Admin Code r. 335-3-1605(f)
	(b)	The permittee shall not use as a defense in an enforcement action that maintaining compliance with conditions of this permit would have required halting or reducing the permitted activity.	ADEM Admin Code r. 335-3-1605(g)

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5.	Termination for Cause	
	This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance will not stay any permit condition.	ADEM Admin Code r. 335-3-1605(h)
6.	Property Rights	
	The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege.	ADEM Admin Code r. 335-3-1605(i)
7.	Submission of Information	
	The permittee must submit to the Department, within 30 days or for such other reasonable time as the Department may set, any information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. Upon receiving a specific request, the permittee shall also furnish to the Department copies of records required to be kept by this permit.	ADEM Admin Code r. 335-3-1605(j)
8.	Economic Incentives, Marketable Permits, and Emissions Trading	
	No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.	ADEM Admin Code r. 335-3-1605(k)
9.	Certification of Truth, Accuracy, and Completeness:	
	Any application form, report, test data, monitoring data, or compliance certification submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.	ADEM Admin Code r. 335-3-1607(a)
10.	Inspection and Entry	
	Upon presentation of credentials and other documents as may be required by law, the permittee shall allow authorized representatives of the Alabama Department of Environmental Management and EPA to conduct the following:	ADEM Admin Code r. 335-3-1607(b)

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	(a)	Enter upon the permittee's premises where a source is located or emissions-related activity is conducted, or where records must be kept pursuant to the conditions of this permit;	
	(b)	Review and/or copy, at reasonable times, any records that must be kept pursuant to the conditions of this permit;	
	(c)	Inspect, at reasonable times, this facility's equipment (including monitoring equipment and air pollution control equipment), practices, or operations regulated or required pursuant to this permit;	
	(d)	Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or other applicable requirements.	
11.	Com	pliance Provisions	
	(a)	The permittee shall continue to comply with the applicable requirements with which the company has certified that it is already in compliance.	ADEM Admin Code r. 335-3-1607(c)
	(b)	The permittee shall comply in a timely manner with applicable requirements that become effective during the term of this permit.	
12.	Com	pliance Certification	
		impliance certification shall be submitted no later than $5^{\rm th}$ of each year.	ADEM Admin Code r. 335-3-1607(e)
	(a)	The compliance certification shall include the following:	
		(1) The identification of each term or condition of this permit that is the basis of the certification;	
		(2) The compliance status;	
		(3) The method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with Rule 335-3-1605(c) (Monitoring and Recordkeeping Requirements);	
		(4) Whether compliance has been continuous or intermittent;	

Federal	y Enforceable Provisos	Regulations
	(5) Such other facts as the Department may require to determine the compliance status of the source;	
(b	The compliance certification shall be submitted to:	
A	labama Department of Environmental Management Air Division P.O. Box 301463 Montgomery, AL 36130-1463	
	and to:	
	Air and EPCRA Enforcement Branch EPA Region IV 61 Forsyth Street, SW Atlanta, GA 30303	
13. <u>R</u>	eopening for Cause	
	nder any of the following circumstances, this permit will be opened prior to the expiration of the permit:	ADEM Admin Code r. 335-3-1613(5)
(a	Additional applicable requirements under the Clean Air Act of 1990 become applicable to the permittee with a remaining permit term of three (3) or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which this permit is due to expire.	
(b	Additional requirements (including excess emissions requirements) become applicable to an affected source under the acid rain program. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into this permit.	
(c	The Department or EPA determines that this permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.	
(c	The Administrator or the Department determines that this permit must be revised or revoked to assure compliance with the applicable requirements.	

	General Permit Provisos				
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14.	Addi	tional	Rules and Regulations		
	exist Rule	ing on s and l	t is issued on the basis of Rules and Regulations the date of issuance. In the event additional Regulations are adopted, it shall be the permit sponsibility to comply with such rules.	§22-28-16(d), Code of Alabama 1975, as amended	
15.	<u>Equi</u>	pment	Maintenance or Breakdown		
	(a)	equij issue main equij twen shut the s inter	the case of shutdown of air pollution control poment (which operates pursuant to any permit and by the Director) for necessary scheduled attenance, the intent to shut down such poment shall be reported to the Director at least ty-four (24) hours prior to the planned down, unless such shutdown is accompanied by shutdown of the source which such equipment is aded to control. Such prior notice shall include, is not limited to the following:	ADEM Admin Code r. 335-3-107(1), (2)	
		(1)	Identification of the specific facility to be taken out of service as well as its location and permit number;		
		(2)	The expected length of time that the air pollution control equipment will be out of service;		
		(3)	The nature and quantity of emissions of air contaminants likely to occur during the shutdown period;		
		(4)	Measures such as the use of off-shift labor and equipment that will be taken to minimize the length of the shutdown period;		
		(5)	The reasons that it would be impossible or impractical to shut down the source operation during the maintenance period.		
	(b)	or up is ex conta stand shall work perti	e event that there is a breakdown of equipment oset of process in such a manner as to cause, or pected to cause, increased emissions of air aminants which are above an applicable dard, the person responsible for such equipment a notify the Director within 24 hours or the next sing day and provide a statement giving all nent facts, including the estimated duration of breakdown. The Director shall be notified when		

the breakdown has been corrected.

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16.	Oper	ation o	of Capture and Control Devices	
	which opera emiss the a as to	n this pated at sions of bove eq	tion control devices and capture systems for bermit is issued shall be maintained and all times in a manner so as to minimize the f air contaminants. Procedures for ensuring that quipment is properly operated and maintained so ize the emission of air contaminants shall be	§22-28-16(d), Code of Alabama 1975, as amended
17.	<u>Obno</u>	xious	<u>Odors</u>	
	obno verificodoro the A	xious o ed by A ous emi labama these n	is issued with the condition that, should dors arising from the plant operations be air Division inspectors, measures to abate the issions shall be taken upon a determination by a Department of Environmental Management neasures are technically and economically	ADEM Admin Code r. 335-3-108
18.	Fugit	tive Du	<u>ıst</u>	
	(a)	eman	autions shall be taken to prevent fugitive dust ating from plant roads, grounds, stockpiles, ns, dryers, hoppers, ductwork, etc.	ADEM Admin Code r. 335-3-402
	(b)	the fo	or haul roads and grounds will be maintained in ollowing manner so that dust will not become rne. A minimum of one, or a combination, of the ring methods shall be utilized to minimize rne dust from plant or haul roads and grounds:	
		(1)	By the application of water any time the surface of the road is sufficiently dry to allow the creation of dust emissions by the act of wind or vehicular traffic;	
		(2)	By reducing the speed of vehicular traffic to a point below that at which dust emissions are created;	
		(3)	By paving;	
		(4)	By the application of binders to the road surface at any time the road surface is found to allow the creation of dust emissions;	

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	adeq and exclu cont Alter	uately ground usively rol tech native	, or a combination, of the above methods fail to reduce airborne dust from plant or haul roads is, alternative methods shall be employed, either or in combination with one or all of the above iniques, so that dust will not become airborne. methods shall be approved by the Department ization.	
19.	<u>Addi</u>	itions a	and Revisions	
			cations to this source shall comply with the n procedures in Rules 335-3-1613 or 335-3-16-	ADEM Admin Code r. 335-3-1613 and .14
20.	Reco	<u>ordkee</u>	ping Requirements	
	(a)		rds of required monitoring information of the ce shall include the following:	ADEM Admin Code r. 335-3-1605(c)2.
		(1)	The date, place, and time of all sampling or measurements;	
		(2)	The date analyses were performed;	
		(3)	The company or entity that performed the analyses;	
		(4)	The analytical techniques or methods used;	
		(5)	The results of all analyses; and	
		(6)	The operating conditions that existed at the time of sampling or measurement.	
	(b)	and s at lea samp Supp main recon	ntion of records of all required monitoring data support information of the source for a period of ast 5 years from the date of the monitoring ole, measurement, report, or application. For information includes all calibration and attenance records and all original strip-chart redings for continuous monitoring instrumentation copies of all reports required by the permit	
21.	Rep	orting	Requirements	
	(a)	shall insta must repor	orts to the Department of any required monitoring be submitted at least every 6 months. All ences of deviations from permit requirements to be clearly identified in said reports. All required rts must be certified by a responsible official istent with Rule 335-3-1604(9).	ADEM Admin Code r. 335-3-1605(c)3.

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	(b)	Deviations from permit requirements shall be reported within 48 hours or 2 working days of such deviations, including those attributable to upset conditions as defined in the permit. The report will include the probable cause of said deviations, and any corrective actions or preventive measures that were taken.			
22.	<u>Emi</u>	ssion Testing Requirements			
	provi safet acco 40 of	a point of emission which requires testing will be ided with sampling ports, ladders, platforms, and other y equipment to facilitate testing performed in rdance with procedures established by Part 60 of Title f the Code of Federal Regulations, as the same may be inded or revised.	ADEM Admin Code r. 335-3-105(3) and ADEM Admin Code r. 335-3-104(1)		
	in ac subr	Air Division must be notified in writing at least 10 days dvance of all emission tests to be conducted and nitted as proof of compliance with the Department's air ation control rules and regulations.			
	proc	void problems concerning testing methods and edures, the following shall be included with the ication letter:			
	(1)	The date the test crew is expected to arrive, the date and time anticipated of the start of the first run, how many and which sources are to be tested, and the names of the persons and/or testing company that will conduct the tests.	ADEM Admin Code r. 335-3-104		
	(2)	A complete description of each sampling train to be used, including type of media used in determining gas stream components, type of probe lining, type of filter media, and probe cleaning method and solvent to be used (if test procedures require probe cleaning).			
	(3)	A description of the process(es) to be tested including the feed rate, any operating parameters used to control or influence the operations, and the rated capacity.			
	(4)	A sketch or sketches showing sampling point locations and their relative positions to the nearest upstream and downstream gas flow disturbances.			
	owne and	etest meeting may be held at the request of the source er or the Air Division. The necessity for such a meeting the required attendees will be determined on a case-by- basis.	ADEM Admin Code r. 335-3-104		

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	All test reports must be submitted to the Air Division within 30 days of the actual completion of the test unless an extension of time is specifically approved by the Air Division.	
23.	Payment of Emission Fees	
	Annual emission fees shall be remitted each year according to the fee schedule in ADEM Admin. Code R. 335-1-704.	ADEM Admin Code r. 335-1-704
<b>24</b> .	Other Reporting and Testing Requirements	
	Submission of other reports regarding monitoring records, fuel analyses, operating rates, and equipment malfunctions may be required as authorized in the Department's air pollution control rules and regulations. The Department may require emission testing at any time.	ADEM Admin Code r. 335-3-104(1)
<b>25</b> .	Title VI Requirements (Refrigerants)	
	Any facility having appliances or refrigeration equipment, including air conditioning equipment, which use Class I or Class II ozone-depleting substances as listed in 40 CFR Part 82, Subpart A, Appendices A and B, shall service, repair, and maintain such equipment according to the work practices, personnel certification requirements, and certified recycling and recovery equipment specified in 40 CFR Part 82, Subpart F.	40 CFR Part 82
	No person shall knowingly vent or otherwise release any Class I or Class II substance into the environment during the repair, servicing, maintenance, or disposal of any device except as provided in 40 CFR Part 82, Subpart F.	
	The responsible official shall comply with all reporting and recordkeeping requirements of 40 CFR 82.166. Reports shall be submitted to the US EPA and the Department as required.	
<b>26</b> .	<b>Chemical Accidental Prevention Provisions</b>	
	If a chemical listed in Table 1 of 40 CFR Part 68.130 is present in a process in quantities greater than the threshold quantity listed in Table 1, then:	40 CFR Part 68
	(a) The owner or operator shall comply with the provisions in 40 CFR Part 68	
	(b) The owner or operator shall submit one of the following:	
		I

(1	) A compliance schedule for meeting the requirements	
	of 40 CFR Part 68 by the date provided in 40 CFR Part 68 § 68.10(a) or,	
(2	2) A certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the Risk Management Plan	
<u>Disp</u>	lay of Permit	
at th locat	e site where the facility for which the permit is issued is ed and will be made readily available for inspection by	ADEM Admin Code r. 335-3-1401(1)(d)
Circ	umvention_	
any or redu- conc	device or any means which, without resulting in ction in the total amount of air contaminant emitted, eals or dilutes any emission of air contaminant which	ADEM Admin Code r 335-3-110
<u>Visit</u>	ole Emissions	
this j disch than sourcemis 40 C	permit, any source of particulate emissions shall not harge more than one 6-minute average opacity greater 20% in any 60-minute period. At no time shall any ce discharge a 6-minute average opacity of particulate sions greater than 40%. Opacity will be determined by FR Part 60, Appendix A, Method 9, unless otherwise	ADEM Admin Code r 335-3-401(1)
<u>Fuel</u>	-Burning Equipment	
(a)	Unless otherwise specified in the Unit Specific provisos of this permit, no fuel-burning equipment may discharge particulate emissions in excess of the emissions specified in Part 335-3-403.	ADEM Admin Code r 335-3-403
(b)	Unless otherwise specified in the Unit Specific provisos of this permit, no fuel-burning equipment may discharge sulfur dioxide emissions in excess of the emissions specified in Part 335-3-501.	ADEM Admin Code r 335-3-501
Proc	ess Industries – General	
this	permit, no process may discharge particulate emissions	ADEM Admin Code r. 335-3-404
	This at the locate any of the concession of the	Display of Permit  This permit shall be kept under file or on display at all times at the site where the facility for which the permit is issued is located and will be made readily available for inspection by any or all persons who may request to see it.  Circumvention  No person shall cause or permit the installation or use of any device or any means which, without resulting in reduction in the total amount of air contaminant emitted, conceals or dilutes any emission of air contaminant which would otherwise violate the Division 3 rules and regulations.  Visible Emissions  Unless otherwise specified in the Unit Specific provisos of this permit, any source of particulate emissions shall not discharge more than one 6-minute average opacity greater than 20% in any 60-minute period. At no time shall any source discharge a 6-minute average opacity of particulate emissions greater than 40%. Opacity will be determined by 40 CFR Part 60, Appendix A, Method 9, unless otherwise specified in the Unit Specific provisos of this permit.  Fuel-Burning Equipment  (a) Unless otherwise specified in the Unit Specific provisos of this permit, no fuel-burning equipment may discharge particulate emissions in excess of the emissions specified in Part 335-3-403.  (b) Unless otherwise specified in the Unit Specific provisos of this permit, no fuel-burning equipment may discharge sulfur dioxide emissions in excess of

ede	rally Enforceable Provisos	Regulations	
2.	Averaging Time for Emission Limits		
	Unless otherwise specified in the permit, the averaging time for the emission limits listed in this permit shall be the nominal time required by the specific test method.	ADEM Admin Code r 335-3-105	
3.	Compliance Assurance Monitoring (CAM)		
	Conditions (a) through (d) that follow are general conditions applicable to emissions units that are subject to the CAM requirements. Specific requirements related to each emissions unit are contained in the unit specific provisos and the attached CAM appendices.		
	(a) Operation of Approved Monitoring	40 CFR 64.7	
	(1) Commencement of operation. The owner or operator shall conduct the monitoring required under this section and detailed in the unit specific provisos and CAM appendix of this permit (if required) upon issuance of the permit, or by such later date specified in the permit pursuant to §64.6(d).		
	(2) Proper maintenance. At all times, the owner or operator shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.		
	(3) Continued operation. Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the owner or operator shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of this part, including data averages and calculations, or fulfilling a minimum data availability requirement, if applicable. The owner or operator shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.		

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- (4) Response to excursions or exceedances. (a) Upon detecting an excursion or exceedance, the owner or operator shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Such actions may include initial inspection and evaluation, recording that operations returned to normal without operator action (such as through response by a computerized distribution control system), or any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable. (b) Determination of whether the owner or operator has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include but is not limited to, monitoring results, review of operation and maintenance procedures and records, and inspection of the control device, associated capture system, and the process.
- (5) Documentation of need for improved monitoring. After approval of monitoring under this part, if the owner or operator identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions, the owner or operator shall promptly notify the Department and, if necessary, submit a proposed modification to the permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, reestablishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters.

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(b) Quality I	(b) Quality Improvement Plan (QIP) Requirements			
Section permoper oper with approper exceedura oper the insection set a crite polluland	ed on the results of a determination made under ion 33(a)(4)(b) above, the Administrator or the nitting authority may require the owner or ator to develop and implement a QIP. Consistent 40 CFR §64.6(c)(3), the permit may specify an opriate threshold, such as an accumulation of edances or excursions exceeding 5 percent ation of a pollutant-specific emissions unit's ating time for a reporting period, for requiring mplementation of a QIP. The threshold may be at a higher or lower percent or may rely on other ria for purposes of indicating whether a stant-specific emissions unit is being maintained operated in a manner consistent with good air ation control practices.			
(2) Elem	nents of a QIP:			
QI	ne owner or operator shall maintain a written P, if required, and have it available for spection.			
ev ba th ind	ne plan initially shall include procedures for aluating the control performance problems and, used on the results of the evaluation procedures, e owner or operator shall modify the plan to clude procedures for conducting one or more of e following actions, as appropriate:			
i.	Improved preventive maintenance practices.			
ii.	Process operation changes.			
iii.	Appropriate improvements to control methods.			
iv.	Other steps appropriate to correct control performance.			
v.	More frequent or improved monitoring (only in conjunction with one or more steps under paragraphs (2)(b)(i) through (iv) above).			

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(3) If a QIP is required, the owner or operator shall develop and implement a QIP as expeditiously as practicable and shall notify the Department if the period for completing the improvements contained in the QIP exceeds 180 days from the date on which the need to implement the QIP was determined.	
(4) Following implementation of a QIP, upon any subsequent determination pursuant to Section 33(a)(4)(b) above, the Department may require that an owner or operator make reasonable changes to the QIP if the QIP is found to have:  A. Failed to address the cause of the control device	
performance problems; or	
B.Failed to provide adequate procedures for correcting control device performance problems as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.	
(5) Implementation of a QIP shall not excuse the owner or operator of a source from compliance with any existing emission limitation or standard, or any existing monitoring, testing, reporting or recordkeeping requirement that may apply under federal, state, or local law, or any other applicable requirements under the Act.	
e) Reporting and Recordkeeping Requirements	40 CFR 64.9
(1) General reporting requirements	
A. On and after the date specified in Section 33(a)(1) above by which the owner or operator must use monitoring that meets the requirements of this part, the owner or operator shall submit monitoring reports to the permitting authority in accordance with ADEM Admin. Code R. 335-3-1605(c)3.	
B.A report for monitoring under this part shall include, at a minimum, the information required	

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	(i) Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;	
	(ii) Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and	
	(iii)A description of the actions taken to implement a QIP during the reporting period as specified in Section 33(b) above. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.	
(2)	General recordkeeping requirements.	
	A. The owner or operator shall comply with the recordkeeping requirements specified in ADEM Admin. Code R. 335-3-1605(c)2. The owner or operator shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to Section 33(b) above and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under this part (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions).	
	B.Instead of paper records, the owner or operator may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements.	

Federally Enforceable Provisos	Regulations			
(d) Savings Provisions  (1) Nothing in this part shall:	40 CFR 64.10			
A. Excuse the owner or operator of a source from compliance with any existing emission limitation or standard, or any existing monitoring, testing, reporting or recordkeeping requirement that may apply under federal, state, or local law, or any other applicable requirements under the Act. The requirements of this part shall not be used to justify the approval of monitoring less stringent than the monitoring which is required under separate legal authority and are not intended to establish minimum requirements for the purpose of determining the monitoring to be imposed under separate authority under the Act, including monitoring in permits issued pursuant to title I of the Act. The purpose of this part is to require, as part of the issuance of a permit under title V of the Act, improved or new monitoring at those emissions units where monitoring requirements do not exist or are inadequate to meet the requirements of this part.				
B. Restrict or abrogate the authority of the Department to impose additional or more stringent monitoring, recordkeeping, testing, or reporting requirements on any owner or operator of a source under any provision of the Act, including but not limited to sections 114(a)(1) and 504(b), or state law, as applicable.				
C. Restrict or abrogate the authority of the Department to take any enforcement action under the Act for any violation of an applicable requirement or of any person to take action under section 304 of the Act.				

## Summary Page for No. 1 Lime Kiln with Baghouse

Permitted

**Operating Schedule:** 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

#### **Emission limitations:**

Emission Point #	Description	Pollutant	Emission limit	Regulation
001	No. 1 Lime Kiln with Baghouse	РМ	3.59(P) <sup>0.62</sup> , P < 30 TPH or 17.31(P) <sup>0.16</sup> , P ≥ 30 TPH	ADEM Admin. Code r. 335-3-404
001	No. 1 Lime Kiln with Baghouse	$\mathrm{SO}_2$	N/A	N/A
001	No. 1 Lime Kiln with Baghouse	$NO_x$	N/A	N/A
001	No. 1 Lime Kiln with Baghouse	CO	N/A	N/A
001	No. 1 Lime Kiln with Baghouse	VOC	N/A	N/A
001	No. 1 Lime Kiln with Baghouse	Opacity	20 %	ADEM Admin. Code r. 335-3-401
		HCl	0.057 lb/ton of lime produced	40 CFR 63.7081(a)
001	No. 1 Lime Kiln with Baghouse	Single HAP	9.9 TPY	MACT Avoidance
		Total HAPs	24.5 TPY	

# Provisos for No. 1 Lime Kiln with Baghouse

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-1603, "Major Source Operating Permits."	ADEM Admin. Code r. 335-3-1603
2. The No. 1 Lime Kiln (001) has limits in place in order to avoid the applicable provisions of 40 CFR 63, Subpart AAAAA, "National Emission Standards for Hazardous Pollutants for Lime Manufacturing Plants."	40 CFR 63.7081(a)
3. This source is subject to the applicable requirements of 40 CFR Part 64 "Compliance Assurance Monitoring."	40 CFR Part 64
Emission Standards	
1. ADEM Admin Code r. 335-401(3-5), states no person shall discharge particulate emissions of an opacity greater than twenty (20%) percent opacity, as determined by a six (6) minute average, except that during each calendar quarter, the permittee may discharge into the atmosphere from the stack particulate with an opacity exceeding 20% for not more than 24 60-minute period of any calendar day, if such periods do not exceed 2.0% of the source calendar quarter operating hours for which opacity standard is applicable and for which the COMS is indicating valid data.	ADEM Admin. Code r. 335-3-401(3-5)
2. The permittee shall not discharge into the atmosphere from the baghouse exhaust particulate emissions of an opacity greater than 22% averaged over each calendar day.	ADEM Admin. Code r. 335-3-401(3-5)
3. The No. 1 Lime Kiln shall not discharge to the atmosphere particulate emissions in excess of the emissions determined by the appropriate " <i>Process Weight Equation</i> " as stated in the General Provisos.	ADEM Admin. Code r. 335-3-404
4. The Permittee shall not cause to be discharged to the atmosphere HCl emissions from the No. 1 Lime Kiln in excess of 0.057 lb/ton of lime produced.	40 CFR 63.7081(a) MACT Avoidance
5. In addition, the Permittee shall not cause to be discharged to the atmosphere any one hazardous air pollutant (from both kilns) in excess of 9.9 TPY. Nor shall the Permittee cause to be discharged to the atmosphere any combination of hazardous air pollutants (from both kilns) in excess of 24.5 TPY.	40 CFR 63.7081(a) MACT Avoidance
Compliance and Performance Test Methods and Procedures	
1. Particulate matter (PM) emissions tests shall be conducted in accordance with Method 5 of 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-105

Federally Enforceable Provisos	Regulations
2. Sulfur Dioxide emissions test shall be conducted in accordance with Method 6 of 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-105
3. Nitrogen Oxide emissions test shall be conducted in accordance with Method 7 or 7E of 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-105
4. Visible emissions observations (VEO) shall be conducted in accordance with Method 9 of 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-105
5. Carbon Monoxide emissions test shall be conducted in accordance with Method 10 of 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-105
6. Emissions of HCl shall be determined by an EPA-approved reference method as stated in 40 CFR 63, Subpart AAAAA.	40 CFR 63 Subpart AAAAA
Emission Monitoring	Suspart Tururi
1. Emission monitoring requirements under 40 CFR 64, "Compliance Assurance Monitoring" can be found in the Appendix on Page 44.	40 CFR Part 64
2. The Permittee shall conduct a particulate matter emissions test for the No. 1 Lime Kiln annually, at intervals not to exceed 12 months.	ADEM Admin. Code r. 335-3-1605(c)
Recordkeeping and Reporting Requirements	
1. The Permittee shall maintain records and submit reports for monitoring required by the CAM Section of this permit. These records and reports shall be maintained on site in a form suitable for inspection for a period of at least 5 years. The details of the records and reports necessary to satisfy the requirements of CAM may be found in Provisos 2 through 5 of this Recordkeeping and Reporting Section.	ADEM Admin. Code r. 335-3-1605(c) 40 CFR Part 64
2. A written report of excess opacity, as determined by the COMS and defined below, will be submitted to the Department for each calendar quarter within the month immediately following the end of the quarter. The quarterly report will include the following:	ADEM Admin. Code r. 335-3-1605(c) 40 CFR Part 64
(a) The magnitude of excess emissions over 20% computed from 6-minute averages (data recorded during period of opacity monitoring system breakdowns, repairs, calibration checks and zero and span adjustments shall not be included in the data averages).	
(b) The date and time of commencement and completion of each time period of excess emissions.	
(c) The nature and cause of the excess emissions (if known) and the corrective action taken or preventative measures adopted.	

Federally Enforceable Provisos	Regulations
(d) The date and time identifying each period during which the opacity monitoring system was inoperative (except for zero and span checks) and the nature of the system repairs or adjustments.	
(e) When no excess emissions have occurred and the opacity monitoring system was not inoperative or did not require repairs or adjustments, such information will be stated in the report.	
3. All the original data charts, performance evaluations, calibration checks, adjustments and maintenance records and other information regarding the opacity monitoring system.	
4. Records of the causes of excess opacity (as determined by the COMS) and corrective measures utilized to alleviate said emissions.	ADEM Admin. Code r. 335-3-1605(c) 40 CFR 64.9
5. Records of baghouse inspections and any maintenance performed.	ADEM Admin. Code r. 335-3-1605(c) 40 CFR 64.9

## Summary Page for Lime Hydrator Plant with Baghouse

Permitted

**Operating Schedule:** 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

#### **Emission Limitations:**

Emission Point #	Description	Pollutant	Emission limit	Regulation
004	Lime Hydrator Plant with Baghouse	РМ	3.0 lb/hr	ADEM Admin. Code r. 335-3-1404 BACT
004	Lime Hydrator Plant with Baghouse	Opacity	20% (See General Provisos)	ADEM Admin. Code r. 335-3-401

## Provisos for Lime Hydrator Plant with Baghouse

Fe	derally Enforceable Provisos	Regulations
A	pplicability	
1.	This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-1603, "Major Source Operating Permits."	ADEM Admin. Code r. 335-3-1603
2.	This source is subject to applicable provisions of ADEM Admin Code r. 335-3-401 (1), "Control of Particulate Emissions – Visible Emissions".	ADEM Admin. Code r. 335-3-401(1)
3.	This source has enforceable limits in place as a result of a review under the provisions of ADEM Admin. Code r. 335-3-1404, "Air Permits Authorizing Construction in Clean Air Areas (Prevention of Significant Deterioration)."	ADEM Admin. Code r. 335-3-1404
<u><b>E</b></u>	mission Standards	
1.	This source shall not discharge to the atmosphere more than one 6-minute average opacity greater than 20% in any 60-minute period. At no time shall this source discharge a 6-minute average opacity of emissions greater than 40%.	ADEM Admin. Code r. 335-3-401
2.	Particulate emissions from this source shall not exceed lesser of the BACT limit of 3.0 lbs/hr or the allowable set by ADEM Admin. Code r. $335\text{-}3\text{-}4\text{-}.04$ .	ADEM Admin. Code r. 335-3-1404 BACT
<u>C</u>	ompliance and Performance Test Methods and Procedures	
1.	Particulate matter (PM) emissions tests shall be conducted in accordance with Method 5 of 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-105
2.	Visible emissions observations (VEO) shall be conducted in accordance with Method 9 of 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-105
<u><b>E</b></u>	mission Monitoring	
1.	The Permittee shall conduct a visual check of the baghouse stack associated with the Lime Hydrator at least once per week while the source is in operation. If the instantaneous opacity noted exceeds ten (10%) percent opacity, a visible emissions observation (VEO) shall be conducted within <b>thirty (30) minutes</b> of the initial observation in accordance with Method 9 of 40 CFR 60, Appendix A, for a minimum of twelve (12) minutes.	ADEM Admin. Code r. 335-3-1605(c)
2.	If the average opacity during the Method 9 Test exceeds $10\%$ opacity, as determined by a 6-minute average, corrective action shall be initiated within 2 hours to reduce the visible emissions.	ADEM Admin. Code r. 335-3-1605(c)
3.	If any Method 9 VEO results in a six (6) minute average greater than twenty (20%) percent opacity, the Permittee shall notify the Department within $twenty-four$ (24) $hours$ , or one (1)	ADEM Admin. Code r. 335-3-1605(c)

Federally Enforceable Provisos	Regulations
working day, of the VEO.	
4. A properly maintained and operated device shall be utilized to measure the pressure differential (ΔP) across the baghouse Each device shall be located at eye level and be easily accessible for inspections by Air Division and plant personnel.	. 335-3-1605(c)
5. Pressure drop (ΔP) across the baghouse shall be monitored and recorded daily while the unit is in operation.	ADEM Admin. Code r. 335-3-1605(c)
6. If the observed pressure drop (ΔP) is less than two and one-hal (2.5) inches of water or greater than eleven (11) inches of water corrective action shall be initiated within two (2) hours.	
7. The Permittee shall perform baghouse inspections/maintenance at least once per calendar quarter.	ADEM Admin. Code r. 335-3-1605(c)
8. Only natural gas shall be utilized in the burner. Any plans to change the type of burner fuel must receive prior approval from the Department.	
Recordkeeping and Reporting Requirements	
1. Records of all visible emissions checks, Method 9 test, pressure drop readings taken, corrective actions taken, and baghous inspections/maintenance shall be kept on site in a form suitable for inspection for a period of at least 5 years.	e 335-3-1605(c)

# Summary Page for No. 2 Lime Kiln with Preheater and Baghouse

Permitted

**Operating Schedule:** 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

#### **Emission Limitations:**

Emission Point #	Description	Pollutant	Emission limit	Regulation
005	No. 2 Lime Kiln with Preheater	PM	0.02 gr/acf,	ADEM Admin. Code
	and Baghouse		25.71 lb/hr, &	r. 335-3-1404 BACT
			0.6 lb/ton of feed	40 CFR 60.342(a)(2)
				Subpart HH
005	No. 2 Lime Kiln with Preheater and Baghouse	$\mathrm{SO}_2$	42.42 lb/hr	ADEM Admin. Code r. 335-3-1404 BACT
005	No. 2 Lime Kiln with Preheater	$NO_x$	70.0 lb/hr &	ADEM Admin. Code
	and Baghouse		2.8 lb/ton of lime produced	r. 335-3-1404 BACT
005	No. 2 Lime Kiln with Preheater	СО	50.0 lb/hr &	ADEM Admin. Code
	and Baghouse		2.0 lb/ton of lime produced	r. 335-3-1404 BACT
005	No. 2 Lime Kiln with Preheater and Baghouse	VOC	N/A	N/A
005	No. 2 Lime Kiln with Preheater	Opacity	15%	40 CFR 60.342(a)(2)
	and Baghouse			Subpart HH

## Provisos for No. 2 Lime Kiln with Preheater and Baghouse

Fed	erally Enforceable Provisos	Regulations
Ap	olicability	
	This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-1603, "Major Source Operating Permits."	ADEM Admin. Code r. 335-3-1603
ľ	This source is subject to the applicable requirements of Federal New Source Performance Standards (NSPS) 40 CFR 60 Subpart	40 CFR Part 60 Subpart HH
1	HH, "Standards of Performance for Lime Manufacturing Plants."	§60.340(a)
ť	The No. 2 Lime Kiln (005) has limits in place in order to avoid the applicable provisions of 40 CFR 63, Subpart AAAAA, National Emission Standards for Hazardous Pollutants for Lime Manufacturing Plants."	40 CFR 63.7081(a)
t 1	This source has enforceable limits as a result of a review under the provisions of ADEM Admin. Code r. 335-3-1404, "Air Permits Authorizing Construction in Clean Air Areas (Prevention of Significant Deterioration)."	ADEM Admin. Code r. 335-3-1404
	This source is subject to the applicable requirements of 40 CFR Part 64 "Compliance Assurance Monitoring."	40 CFR Part 64
Em	ission Standards	
	The particulate matter emissions from Kiln 2 (005) shall not exceed 0.6 lb/ton of stone feed.	40 CFR Part 60 Subpart HH
		§60.342(a)(1)
	The particulate matter emissions from Kiln 2 (005) shall not exceed 0.02 gr/acf and 25.71 lb/hr.	ADEM Admin. Code r. 335-3-1404
t	The opacity from the exhaust of the baghouse associated with his source shall not exhibit greater than 15% opacity, as	BACT 40 CFR Part 60 Subpart HH
4. T	letermined by a 6-minute average. The sulfur content of the fuel blend delivered to the kiln burner shall not exceed 3.03%, based on a composite sample that is	§60.342(a)(2) ADEM Admin. Code r. 335-3-1404
	collected each week. (See Emissions Monitoring #3 for the method of collecting the sample.)	BACT
6	The $SO_2$ removal efficiency, based on comparison of $SO_2$ emitted to conversion of all inlet fuel sulfur to $SO_2$ , shall be	ADEM Admin. Code r. 335-3-1404
ζ	93% or greater.	BACT
	The $SO_2$ emission rate from Kiln 2 (005) shall not exceed 42.42 b/hr.	ADEM Admin. Code r. 335-3-1404
		BACT

Fe	derally Enforceable Provisos	Regulations
7.	The $NO_x$ emission rate from Kiln 2 (005) shall not exceed 2.8 lb/ton of lime produced and 70.0 lb/hr.	ADEM Admin. Code r. 335-3-1404
		BACT
8.	The CO emission rate from Kiln 2 (005) shall not exceed 2.0 lb/ton of lime produced and $50.0 \ lb/hr$ .	ADEM Admin. Code r. 335-3-1404
		BACT
9.	The Permittee shall not cause to be discharged to the	40 CFR 63.7081(a)
	atmosphere HCl emissions from the No. 2 Lime Kiln in excess of 0.072 lb/ton of lime produced.	MACT Avoidance
10	In addition, the Permittee shall not cause to be discharged to	40 CFR 63.7081(a)
	the atmosphere any one hazardous air pollutant (from both kilns) in excess of 9.9 TPY. Nor shall the Permittee cause to be discharged to the atmosphere any combination of hazardous air pollutants (from both kilns) in excess of 24.5 TPY.	MACT Avoidance
<u>C</u>	ompliance and Performance Test Methods and Procedures	
1.	Particulate matter (PM) emissions tests shall be conducted in accordance with Method 5 of 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-105
2.	Sulfur Dioxide emissions test shall be conducted in accordance with Method 6 of 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-105
3.	Nitrogen Oxide emissions test shall be conducted in accordance with Method 7 or 7E of 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-105
4.	Visible emissions observations (VEO) shall be conducted in accordance with Method 9 of 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-105
5.	Carbon Monoxide emissions test shall be conducted in accordance with Method 10 of 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-105
6.	Emissions of HCl shall be determined by an EPA-approved	40 CFR 63
	reference method as stated in 40 CFR 63, Subpart AAAAA.	Subpart AAAAA
<u><b>E</b></u> :	mission Monitoring	
1.	Emission monitoring requirements under 40 CFR 64, "Compliance Assurance Monitoring" can be found in the Appendix on Page 44.	40 CFR Part 64
2.	The Permittee shall conduct a particulate matter emissions test for the No. 2 Lime Kiln annually, at intervals not to exceed $12$ months.	ADEM Admin. Code r. 335-3-1605(c)
3.	Samples of the coal/coke blend processed in this source will be collected at least once per shift. A composite sample will be prepared by mixing together all of the samples taken in a week. Analyses of these composite samples shall be performed weekly and, in addition, shall be averaged monthly.	ADEM Admin. Code r. 335-3-1404 BACT

Federally Enforceable Provisos	Regulations
4. CO and NO <sub>x</sub> emissions tests are to be conducted for this source at least once per permit term. During these emissions tests the maximum fuel firing rate (3-hour average) and minimum O <sub>2</sub> level (3-hour average) shall be recorded.	335-3-1605(c)
5. The Permittee shall monitor the fuel firing rate (1-hour average) and the $O_2$ level (1-hour average) of this source during all times of kiln operation.	
6. If the fuel firing rate exceeds $110\%$ (based on a 1-hour average) of the fuel firing rate as measured during the most recent CC and $NO_x$ emissions tests, which demonstrated compliance with the applicable emissions standards, the fuel feed rate shall be lowered and the source shall undergo additional CO and NO emissions tests at the higher fuel firing rate.	335-3-1605(c)
7. If the $O_2$ level (1-hour average) of this source is measured at less than 75% of the lowest $O_2$ rate (1-hour average) as measured during the most recent CO and $NO_x$ emissions test which demonstrated compliance with the applicable standards, the Permittee shall investigate the cause and initiate the appropriate corrective action within 2 hours.	335-3-1605(c)
Recordkeeping and Reporting Requirements	
1. The Permittee shall maintain records and submit reports for monitoring required by the CAM Section of this permit. These records and reports shall be maintained on site in a form suitable for inspection for a period of at least 5 years. The details of the records and reports necessary to satisfy the requirements of CAM may be found in Provisos 2 through 5 of this Recordkeeping and Reporting Section.	335-3-1605(c)
2. Records of all maintenance inspections and corrective actions performed for Kiln 2 and its associated baghouse (005) shall be kept in a form suitable for inspection.	335-3-1605(c)
3. A written report of excess opacity, as determined by the COMS and defined below, will be submitted to the Department for each calendar quarter within the month immediately following the end of the quarter. The quarterly report will include the following:	335-3-1605(c)
(1) The magnitude of excess emissions over 15% computed from 6-minute averages (data recorded during period of opacity monitoring system breakdowns, repairs calibration checks and zero and span adjustments shall not be included in the data averages).	
(2) The date and time of commencement and completion of each time period of excess emissions.	

Federally Enforceable Provisos	Regulations
(3) The nature and cause of the excess emissions (if known) and the corrective action taken or preventative measures adopted.	
(4) The date and time identifying each period during which the opacity monitoring system was inoperative (except for zero and span checks) and the nature of the system repairs or adjustments.	
(5) When no excess emissions have occurred and the opacity monitoring system was not inoperative or did not require repairs or adjustments, such information will be stated in the report.	
4. All the original data charts, performance evaluations, calibration checks, adjustments and maintenance records and other information regarding the opacity monitoring system will be maintained in a permanent form suitable for inspection.	
5. Records of the causes of excess opacity and corrective measures utilized to alleviate said emissions, per Item 3 of the Emissions Monitoring Section above, shall be kept in a form suitable for inspection.	335-3-1605(c)
6. Records of the weekly fuel sulfur content analyses and monthly averages of weekly fuel sulfur content analyses shall be maintained in a form suitable for inspection. Any weekly fuel sulfur analysis in excess of 3.03% sulfur shall be reported to the Department within 24 hours of discovery.	335-3-1404
7. Records shall be maintained which document the maximum fuel firing rate (1-hour average) and the minimum $O_2$ level (1-hour average) for each day Kiln 2 (005) operates.	ADEM Admin. Code r. 335-3-1605(c)

# Summary Page for Lime Crushing and Screening Station with Baghouse

Permitted

**Operating Schedule:** 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

#### **Emission limitations:**

Emission Point #	Description	Pollutant	Emission limit	Regulation
006	Lime Crushing and Screening Station with Baghouse	PM	0.02 gr/scf	ADEM Admin. Code r. 335-3-1404 BACT
006	Lime Crushing and Screening Station with Baghouse	Opacity	20% (See General Provisos)	ADEM Admin. Code r. 335-3-401

# Provisos for Lime Crushing and Screening Station with Baghouse

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-1603, "Major Source Operating Permits."	ADEM Admin. Code r. 335-3-1603
2. This source is subject to applicable provisions of ADEM Admir Code r. 335-3-401 (1), "Control of Particulate Emissions - Visible Emissions".	
3. This source has enforceable limits as a result of a review under the provisions of ADEM Admin. Code r. 335-3-1404, "Air Permits Authorizing Construction in Clean Air Areas (Prevention of Significant Deterioration)."	335-3-1404
Emission Standards	
1. The particulate emissions from this source shall not exceed the lesser of the BACT limit of 0.02 gr/scf or the allowable set by	
ADEM Admin. Code r. 335-3-404.	BACT
2. This source shall not discharge to the atmosphere more than one 6-minute average opacity greater than 20% in any 60-minute period. At no time shall this source discharge a 6-minute average opacity of emissions greater than 40%.	335-3-401
<b>Compliance and Performance Test Methods and Procedures</b>	
1. Particulate matter (PM) emissions tests shall be conducted in accordance with Method 5 of 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-105
2. Visible emission observations (VEO) shall be conducted in accordance with Method 9 of 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-105
Emission Monitoring	
1. The Permittee shall conduct a visual check of the baghouse exhaust associated with this source at least once per week for any visible emissions. If any visible emissions are noted corrective action shall be initiated within 2 hours of the initial observation of visible emissions in order to eliminate the visible emissions.	335-3-1605(c)
2. Baghouse preventative maintenance inspections shall be performed at least once per quarter. The preventative maintenance shall include, but may not be limited to:	
(a) Visual inspections of the positive side of the bags through the maintenance port for fallen bags, worn or	

Federally Enforceable Provisos	Regulations
torn bags;	
(b) Visual inspections for auger overload;	
(c) Visual inspections of baghouse doors to ensure proper seals.	
3. A reading of the differential pressure across the baghouse shall be taken and recorded at least once per day during system operation. Should it be noted that the differential pressure across the baghouse is lower than 3 inches of water, corrective action shall be initiated within 1 hour of discovery to ensure proper operation of the baghouse.	335-3-1605(c)
4. To ensure the proper operation of the magnehelic gauge, which provides the baghouse differential pressure readings maintenance inspections shall be performed at least once per quarter. These quarterly inspections shall include (but may no be limited to) checks of the pressure taps to ensure that there is no plugging/build-up, which would adversely affect the differential pressure reading.	335-3-1605(c)
Recordkeeping and Reporting Requirements	
1. The Permittee shall maintain records of all visual checks and corrective actions taken on site in a form suitable for inspection for a period of at least 5 years.	
2. The Permittee shall maintain records of the pressure drop readings, magnehelic gauge maintenance inspections (and maintenance performed), and any corrective actions taken These records shall be maintained on site in a form suitable for inspection for a period of at least 5 years.	1 335-3-1605(c)

## Summary Page for No. 2 Lime Kiln Dust Bin

**Permitted** 

Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

#### **Emission limitations:**

Emission Point #	Description	Pollutant	Emission limit	Regulation
007	No. 2 Lime Kiln Dust Bin	PM	0.02 gr/scf	ADEM Admin. Code r. 335-3-1404 BACT
007	No. 2 Lime Kiln Dust Bin	Opacity	20% (See General Provisos)	ADEM Admin. Code r. 335-3-401

# Provisos for No. 2 Lime Kiln Dust Bin with Loadout and Baghouse

Fe	derally Enforceable Provisos	Regulations
A	pplicability	
1.	This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-1603, "Major Source Operating Permits."	ADEM Admin. Code r. 335-3-1603
2.	This source is subject to applicable provisions of ADEM Admin Code r. 335-3-401 (1), "Control of Particulate Emissions – Visible Emissions".	ADEM Admin. Code r. 335-3-401(1)
3.	This source has enforceable limits as a result of a review under the provisions of ADEM Admin. Code r. 335-3-1404, "Air Permits Authorizing Construction in Clean Air Areas (Prevention of Significant Deterioration)."	ADEM Admin. Code r. 335-3-1404
<u><b>E</b></u>	mission Standards	
1.	The particulate matter emission rate from the baghouse associated with this source shall not exceed the lesser of the BACT limit of $0.02~\rm gr/scf$ or the allowable set by rule $335-3-4-04$	ADEM Admin. Code r. 335-3-1404 BACT
2.	This source shall not discharge to the atmosphere more than one 6-minute average opacity greater than 20% in any 60-minute period. At no time shall this source discharge a 6-minute average opacity of emissions greater than 40%.	ADEM Admin. Code r. 335-3-401
<u>C</u>	ompliance and Performance Test Methods and Procedures	
1.	Particulate matter (PM) emissions tests shall be conducted in accordance with Method 5 of 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-105
2.	Visible emission observations (VEO) shall be conducted in accordance with Method 9 of 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-105
<u><b>E</b></u>	mission Monitoring	
1.	The Permittee shall conduct a visual check of the baghouse exhaust associated with this source at least once per week for any visible emissions. If any visible emissions are noted, corrective action to eliminate the visible emissions shall be initiated within 2 hours of the observation of the visible emissions.	ADEM Admin. Code r. 335-3-1605(c)
2.	Baghouse preventative maintenance inspections shall be performed at least once per quarter. The preventative maintenance shall include, but may not be limited to:	ADEM Admin. Code r. 335-3-1605(c)
	<ul> <li>(a) Visual inspections of the positive side of the bags through the maintenance port for fallen bags, worn or torn bags;</li> </ul>	

(b) Visual inspections for auger overload;

Fee	derally Enforceable Provisos	Regulations
	(c) Visual inspections of baghouse doors to ensure proper seals.	
3.	A reading of the differential pressure across the baghouse shall be taken and recorded at least once per day during system operation. Should it be noted that the differential pressure across the baghouse is lower than 3 inches of water, corrective action shall be initiated within 1 hour of discovery to ensure proper operation of the baghouse.	ADEM Admin. Code r. 335-3-1605(c)
	To ensure the proper operation of the magnehelic gauge, which provides the baghouse differential pressure readings, maintenance inspections shall be performed at least once per quarter. These quarterly inspections shall include (but may not be limited to) checks of the pressure taps to ensure that there is no plugging/build-up, which would adversely affect the differential pressure reading.	ADEM Admin. Code r. 335-3-1605(c)
Re	ecordkeeping and Reporting Requirements	
	The Permittee shall maintain records of all visual checks and corrective actions taken on site in a form suitable for inspection for a period of at least 5 years.	ADEM Admin. Code r. 335-3-1605(c)
	The Permittee shall maintain records of the pressure drop readings, magnehelic gauge maintenance inspections (and maintenance performed), and any corrective actions taken. These records shall be maintained on site in a form suitable for inspection for a period of at least 5 years.	ADEM Admin. Code r. 335-3-1605(c)

# Summary Page for No. 1 Lime Kiln Dust Bin with Loadout and Baghouse

**Permitted** 

**Operating Schedule:** 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

#### **Emission limitations:**

Emission Point #	Description	Pollutant	Emission limit	Regulation
008	No. 1 Lime Kiln Dust Bin	РМ	0.6 lb/hr	ADEM Admin. Code r. 335-3-1404 Anti-PSD
008	No. 1 Lime Kiln Dust Bin	Opacity	20% (See General Provisos)	ADEM Admin. Code r. 335-3-401

# Provisos for No. 1 Lime Kiln Dust Bin with Loadout and Baghouse

Fe	derally Enforceable Provisos	Regulations
A	pplicability	
1.	This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-1603, "Major Source Operating Permits."	ADEM Admin. Code r. 335-3-1603
2.	This source is subject to applicable provisions of ADEM Admin Code r. 335-3-401 (1), "Control of Particulate Emissions – Visible Emissions".	ADEM Admin. Code r. 335-3-401(1)
3.	This source has enforceable limits in place in order to prevent it from being subject to the provisions of ADEM Admin. Code r. 335-3-1404, "Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]."	ADEM Admin. Code r. 335-3-1404
<u><b>E</b></u>	mission Standards	
1.	The particulate matter emission rate from the baghouse associated with this source shall not exceed the lesser of the	ADEM Admin. Code r. 335-3-1404
	Anti-PSD limit of 0.6 lb/hr or the allowable set by ADEM Admin. Code r. 335-3-404.	Anti-PSD
2.	This source shall not discharge to the atmosphere more than one 6-minute average opacity greater than 20% in any 60-minute period. At no time shall this source discharge a 6-minute average opacity of emissions greater than 40%.	ADEM Admin. Code r. 335-3-401
<u>C</u>	ompliance and Performance Test Methods and Procedures	
1.	Particulate matter (PM) emissions tests shall be conducted in accordance with Method 5 of 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-105
2.	Visible emission observations (VEO) shall be conducted in accordance with Method 9 of 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-105
<u><b>E</b></u>	mission Monitoring	
1.	The Permittee shall conduct a visual check of the baghouse exhaust associated with this source at least once per week for any visible emissions. If any visible emissions are noted, corrective action to eliminate the visible emissions shall be initiated within 2 hours of the observation of the visible emissions.	ADEM Admin. Code r. 335-3-1605(c)
2.	Baghouse preventative maintenance inspections shall be performed at least once per quarter. The preventative maintenance shall include, but may not be limited to:	ADEM Admin. Code r. 335-3-1605(c)
	<ul> <li>(a) Visual inspections of the positive side of the bags through the maintenance port for fallen bags, worn or torn bags;</li> </ul>	
	(b) Visual inspections for auger overload;	

Fe	derally Enforceable Provisos	Regulations
	(c) Visual inspections of baghouse doors to ensure proper seals.	
3.	A reading of the differential pressure across the baghouse shall be taken and recorded at least once per day during system operation. Should it be noted that the differential pressure across the baghouse is lower than 3 inches of water, corrective action shall be initiated within 1 hour of discovery to ensure proper operation of the baghouse.	ADEM Admin. Code r. 335-3-1605(c)
4.	To ensure the proper operation of the magnehelic gauge, which provides the baghouse differential pressure readings, maintenance inspections shall be performed at least once per quarter. These quarterly inspections shall include (but may not be limited to) checks of the pressure taps to ensure that there is no plugging/build-up, which would adversely affect the differential pressure reading.	ADEM Admin. Code r. 335-3-1605(c)
<u>R</u>	ecordkeeping and Reporting Requirements	
1.	The Permittee shall maintain records of all visual checks and corrective actions taken on site in a form suitable for inspection for a period of at least 5 years.	ADEM Admin. Code r. 335-3-1605(c)
2.	The Permittee shall maintain records of the pressure drop readings, magnehelic gauge maintenance inspections (and maintenance performed), and any corrective actions taken. These records shall be maintained on site in a form suitable for inspection for a period of at least 5 years.	ADEM Admin. Code r. 335-3-1605(c)

# Summary Page for No. 1 & 2 Lime Systems

**Permitted** 

Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

#### **Emission limitations:**

Emission Point #	Description	Pollutant	Emission limit	Regulation
010	No. 1 & 2 Lime Systems	РМ	6.6 lb/hr	ADEM Admin. Code r. 335-3-1404 Anti-PSD
010	No. 1 & 2 Lime Systems	Opacity	20% (See General Provisos)	ADEM Admin. Code r. 335-3-401

# Provisos for No. 1 & 2 Lime Systems

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-1603, "Major Source Operating Permits."	ADEM Admin. Code r. 335-3-1603
2. This source is subject to applicable provisions of ADEM Admin Code r. 335-3-401 (1), "Control of Particulate Emissions – Visible Emissions".	ADEM Admin. Code r. 335-3-401(1)
3. This source has enforceable limits in place in order to prevent it from being subject to the provisions of ADEM Admin. Code r. 335-3-1404, "Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]."	ADEM Admin. Code r. 335-3-1404
Emission Standards	
1. The particulate matter emission rate from the baghouse associated with this source shall not exceed lesser of the Anti-	ADEM Admin. Code r. 335-3-1404
PSD limit of 6.6 lb/hr or the allowable set by ADEM Admin. Code r. 335-3-404.	Anti-PSD
2. This source shall not discharge to the atmosphere more than one 6-minute average opacity greater than 20% in any 60-minute period. At no time shall this source discharge a 6-minute average opacity of emissions greater than 40%.	ADEM Admin. Code r. 335-3-401
Compliance and Performance Test Methods and Procedures	
1. Particulate matter (PM) emissions tests shall be conducted in accordance with Method 5 of 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-105
2. Visible emission observations (VEO) shall be conducted in accordance with Method 9 of 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-105
Emission Monitoring	
1. The Permittee shall conduct a visual check of the baghouse exhaust associated with this source at least once per week for visible emissions. If visible emissions greater than 15% opacity are noted, corrective action shall be initiated, if necessary, within 2 hours of the observation of the visible emissions in order to reduce the visible emissions.	ADEM Admin. Code r. 335-3-1605(c)
2. If during any visual check, visible emissions greater than 15% opacity are noted, the Permittee shall conduct an EPA Reference Method 9 test for a minimum of 12 minutes. If any Method 9 test results in visible emissions greater than 20% opacity, the Permittee shall notify the Department within 24 hours of the Method 9 test.	ADEM Admin. Code r. 335-3-1605(c)
3. Baghouse preventative maintenance inspections shall be performed at least once per quarter. The preventative maintenance shall include, but may not be limited to:	ADEM Admin. Code r. 335-3-1605(c)

Fe	derally Enforceable Provisos	Regulations
	(a) Visual inspections of the positive side of the bags through the maintenance port for fallen bags, worn or torn bags;	
	(b) Visual inspections for auger overload;	
	(c) Visual inspections of baghouse doors to ensure proper seals.	
4.	A reading of the differential pressure across the baghouse shall be taken and recorded at least once per day during system operation. Should it be noted that the differential pressure across the baghouse is lower than 3 inches of water, corrective action shall be initiated within 1 hour of discovery to ensure proper operation of the baghouse.	ADEM Admin. Code r. 335-3-1605(c)
5.	To ensure the proper operation of the magnehelic gauge, which provides the baghouse differential pressure readings, maintenance inspections shall be performed at least once per quarter. These quarterly inspections shall include (but may not be limited to) checks of the pressure taps to ensure that there is no plugging/build-up, which would adversely affect the differential pressure reading.	ADEM Admin. Code r. 335-3-1605(c)
<u>R</u>	ecordkeeping and Reporting Requirements	
1.	The Permittee shall maintain records of all visual checks, Method 9 tests, and corrective actions taken on site in a form suitable for inspection for a period of at least 5 years.	ADEM Admin. Code r. 335-3-1605(c)
2.	The Permittee shall maintain records of the pressure drop readings, magnehelic gauge maintenance inspections (and maintenance performed), and any corrective actions taken. These records shall be maintained on site in a form suitable for	ADEM Admin. Code r. 335-3-1605(c)

inspection for a  $\,$  period of at least 5 years.

# **APPENDIX**

Compliance Assurance Monitoring Requirements (CAM)

## Compliance Assurance Monitoring Plan for Emission Unit 001 (No. 1 Lime Kiln)

	Indicator 1	Indicator 2	Indicator 3
I. Indicator	Opacity (Measured with a Continuous Opacity Monitor)	Baghouse and bag conditions are observed through maintenance inspections performed once per quarter. **	Particulate Matter Emissions Tests (Measured in accordance with EPA Reference Method 5)
II. Indicator Range	Opacity should be 20% or less. Inspection of baghouse is prompted if outside this range for more than 5 consecutive 6-minute periods.	Range is exceeded if failure to perform inspections or take action following report of necessary maintenance.	E = $3.59(P)^{0.62}$ P < 30 TPH E = $17.31(P)^{0.16}$ P $\geq$ 30 TPH
	An excursion exists if opacity (as indicated by the COMS) exceeds more than one 6-minute average of 20% in 1 hour and/or any 6-minute average of 40% opacity. *		An excursion exists if a Method 5 test results in emissions greater than that allowed by the appropriate Process Weight Equation as stated above.
III. Performance Criteria			
A. Data Representativeness	The COM is located at the baghouse outlet. The system has a minimum accuracy of 2% over the range of the monitor.	Not Applicable	The Method 5 is performed as prescribed in Appendix A of 40 CFR Part 60.
B. Verification of Operation Status	Not Applicable	Not Applicable	Not Applicable
C. QA/QC Practices & Criteria	Calibrate and maintain in accordance with manufacturer's specification and 40 CFR 60.13 and 40 CFR 60, Appendix B, Performance Specification I requirements.	Personnel will be trained properly to perform inspections and maintenance and recognize excursions and initiate corrective action.	The Method 5 is performed as prescribed in Appendix A of 40 CFR Part 60.
	Indicator 1	Indicator 2	Indicator 3

Ι	D. Monitoring Frequency			
	Data Collection Procedures	Continuously recorded on strip charts or electronically	At least once per quarter	The Method 5 test shall be performed at least once per year. Consecutive tests shall not be conducted less than 6 months or more than 18 months apart. The Method 5 is performed as prescribed in Appendix A of 40 CFR Part 60.
	Averaging Period	6-minute averages	Not Applicable	3-hour average

- \* Should the net opacity exceedances exceed 5%, as determined by the COMS, during any calendar quarter, the Department may require additional particulate matter emissions testing to be conducted prior to the end of the next calendar quarter.
- \*\* Quarterly Control Device Inspections Include (But May Not Be Limited To):
  - Visual inspection of the positive side of the bags through the maintenance port for fallen bags
  - Worn or torn bags
  - Auger overload
  - Inspection of baghouse doors to ensure properly sealed doors

## Compliance Assurance Monitoring Plan for Emission Unit 005 (No. 2 Lime Kiln)

	Indicator 1	Indicator 2	Indicator 3
I. Indicator	Opacity (Measured with a Continuous Opacity Monitor)	Baghouse and bag conditions are observed through maintenance inspections performed once per quarter. **	Particulate Matter Emissions Tests (Measured in accordance with EPA Reference Method 5)
II. Indicator Range	Opacity should be 15% or less. Inspection of baghouse is prompted if outside this range for more than 5 consecutive 6-minute periods.  An excursion exists if opacity (as indicated by the COMS) exceeds more than one 6-minute average of 15%. *	Range is exceeded if failure to perform inspections or take action following report of necessary maintenance.	0.6 lb/ton of feed 0.02 gr/acf 25.71 lb/hr An excursion exists if a Method 5 test results in emissions greater than any of the limits listed above.
III. Performance Criteria			
A. Data Representativeness	The COM is located at the baghouse outlet. The system has a minimum accuracy of 2% over the range of the monitor.	Not Applicable	The Method 5 is performed as prescribed in Appendix A of 40 CFR Part 60.
B. Verification of Operation Status	Not Applicable	Not Applicable	Not Applicable
C. QA/QC Practices & Criteria	Calibrate and maintain in accordance with manufacturer's specification and 40 CFR 60.13 and 40 CFR 60, Appendix B, Performance Specification I requirements.	Personnel will be trained properly to perform inspections and maintenance. Operators will be trained properly to recognize excursions and initiate corrective action.	The Method 5 is performed as prescribed in Appendix A of 40 CFR Part 60.
	Indicator 1	Indicator 2	Indicator 3

Ι	D. Monitoring Frequency			
	Data Collection Procedures	Continuously recorded on strip charts or electronically	At least once per quarter	The Method 5 test shall be performed at least once per year. Consecutive tests shall not be conducted less than 6 months or more than 18 months apart. The Method 5 is performed as prescribed in Appendix A of 40 CFR Part 60.
	Averaging Period	6-minute averages	Not Applicable	3-hour average

- \* Should the net opacity exceedances exceed 5%, as determined by the COMS, during any calendar quarter, the Department may require additional particulate matter emissions testing to be conducted prior to the end of the next calendar quarter.
- \*\* Quarterly Control Device Inspections Include (But May Not Be Limited To):
  - Visual inspection of the positive side of the bags through the maintenance port for fallen bags
  - Worn or torn bags
  - Auger overload
  - Inspection of baghouse doors to ensure properly sealed doors